

## ■ Dimensions



## ■ Input/Output Terminals

\*Applies only when equipped with PDA-5003/PDA-5004

\*Apple Macintosh is a registered trademark of Apple Computer, Inc. \*IBM PC/AT is a registered trademark of IBM Corporation. \*Microsoft is a registered trademark of Microsoft Corporation. \*VESA is a registered trademark of Video Electronics Standards Association.

## ■ Audio Input/Output Terminals

## ■ Control Terminals

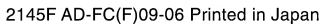
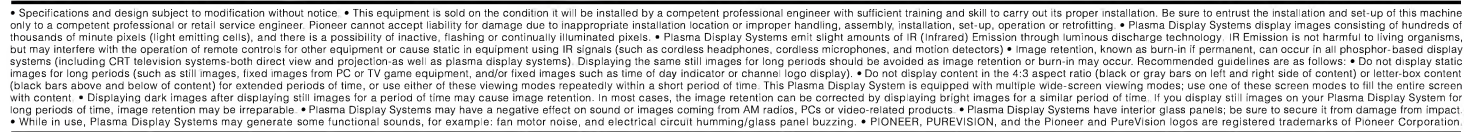
## ■ Computer Input Signal

\*Compressed display

### ●Included Accessories

Power Cord x 1, Remote Control Unit x 1, AA batteries x 2, Cleaning Cloth x 1, Speed Clamps x 3, Cable Bands x 3, Ferrite Cores (for Audio Cable) x 3, Operating Instructions x1, Warranty x1

## Optional Accessories



## 50-Inch WXGA Professional Plasma Display





Not all displays are built the same.

# Look Deeper.

Advanced image processing increases efficiency while producing dynamic, vibrant content. Using breakthrough technologies, Pioneer provides unprecedented brightness and greatly improved dark-area contrast.



50-Inch WXGA Professional Plasma Display  
**PDP-507CMX**



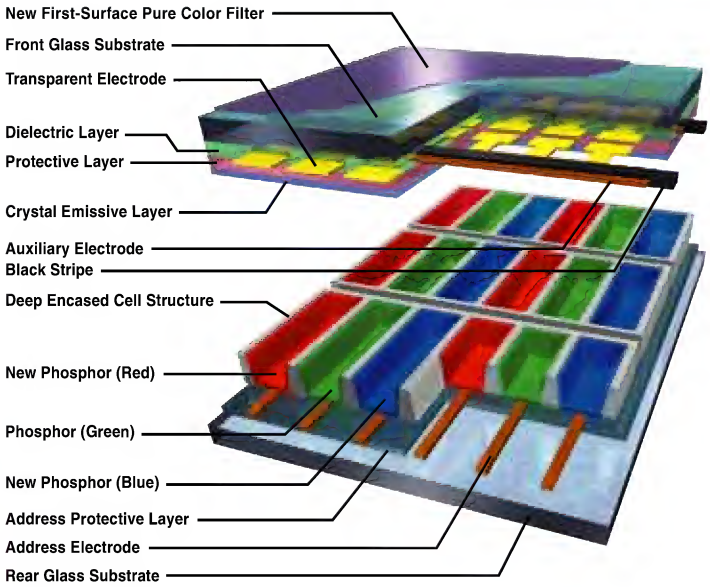
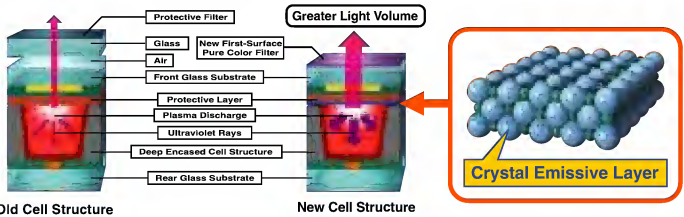
## Dynamic Imagery

### Exclusive Panel Technologies

Achieves the dual goals of higher brightness and greater contrast.

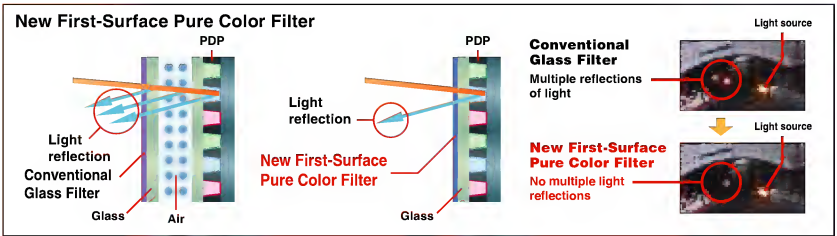
PDP image quality takes another impressive step forward with Pioneer's new panel technologies. In addition to our exclusive Deep Encased Cell Structure, it uses another breakthrough technology called Crystal Emissive Layer to boost luminous efficiency beyond any previous model. The result is a first-of-its-kind level of high brightness and unprecedented dark-area contrast. Blacks are blacker, while light areas maintain their true brightness values. Bright-area contrast is also significantly higher, meaning that the PDP-507CMX will provide eye-catching imagery, even in bright places such as shopping malls, event venues and showrooms.

#### Comparison of Old and New Cell Structure



### New First-Surface Pure Color Filter

Another new technology developed for the PDP-507CMX, the New First-Surface Pure Color Filter is an industrial grade filter optically bonded directly to the plasma glass to reduce light reflection. The result is higher color accuracy and better contrast in brightly lit spaces.



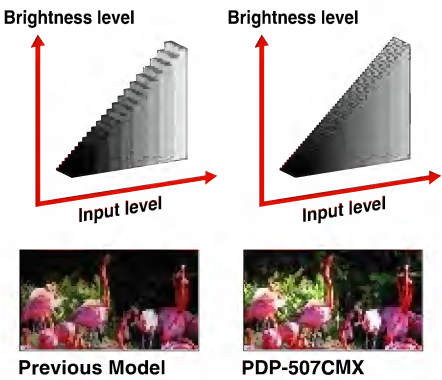
### New Pure Drive Pro

Superb picture quality designed for professional applications.

The best possible picture quality and most efficient PDP available is realized by combining color management, scaling, GUI and other image processing technologies on a single chip developed exclusively for Pioneer's professional plasma displays. Scaling performance, a vital factor for professional plasma displays, has been enhanced to ensure that even high-resolution signals are reproduced with minimal data loss. In addition, ACE IV technology enables the panel to accurately reproduce the full-range grayscale for each color. The panel instantly identifies the type of image being shown (fast-vs. slow-motion scenes, dark vs. light scenes) and intuitively optimizes the distribution of color gradation.

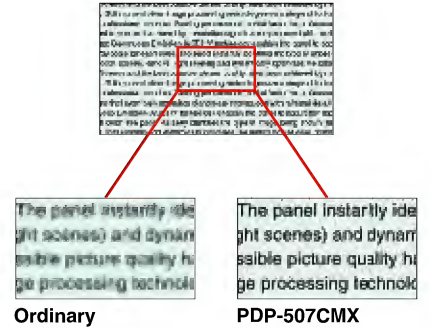
#### New ACE IV (Advanced Continuous Emission IV)

Greatly improved reproduction in the low brightness range.



#### Superior scaling performance

Even when the image is expanded by video wall or point zoom functions, the PDP-507CMX displays detailed information with exacting clarity.



### Six Pro Use display modes allow image adjustment for professional applications

- Under-Scan:** Displays 100% of the image, including the outer edges that are normally cut off.
- Color-Off:** Removes color information for optimum display of black and white signals.
- Still Image Processing:** Displays still images accurately by varying movement detection processing.
- Pure Image:** Displays images as close as possible to the original signal with no image processing.
- High Contrast:** Uses special dynamic range expansion to make images more vivid.
- Blue Only:** Used in broadcast and post production for display calibration.



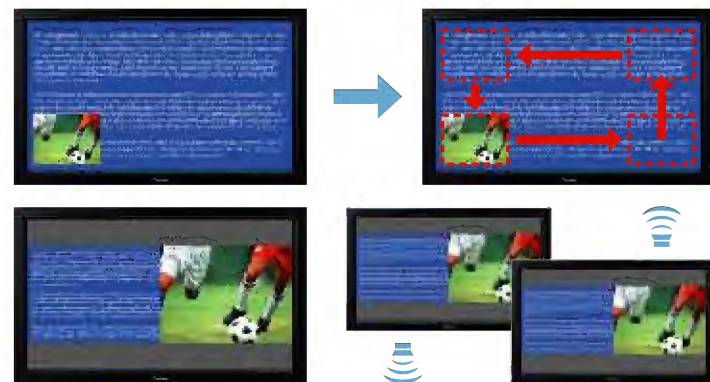


# Powerful Functionality

## Dual Screen Function

### Standard Dual Screen Mode

Remote and RS-232 control operation permits the use of Picture-in-Picture (P-in-P) and Side-by-Side modes. With P-in-P, the position of the sub-image can be shifted among four locations, or Side-by-Side images can be switched between the left and right positions. Audio can also be independently switched.



### P-in-P Display Variations

The P-in-P mode permits a number of display variations. There are multiple sizes of P-in-P sub-images which can be set in addition to the transparency of the sub-image from 0 to 80%.

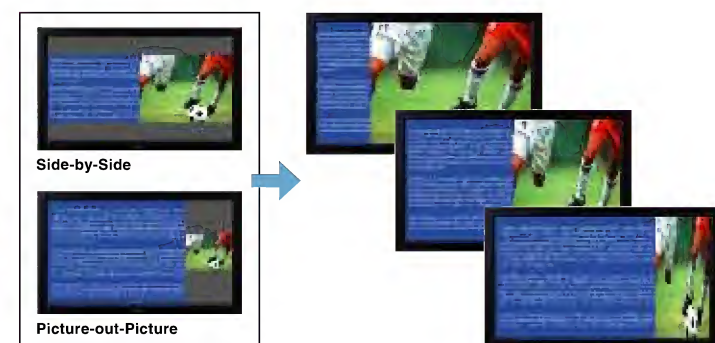


### P-in-P Fade In/Out

This function allows an optional fade in/out transition of the sub-picture.

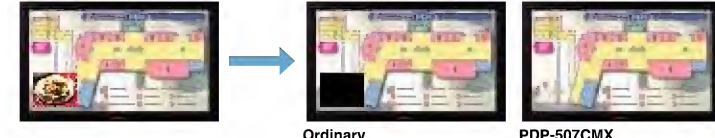
### Upgraded Side-by-Side Mode

Switch easily between Side-by-Side and P-out-P modes. It is also possible to select three horizontal aspect ratios for dual-image, full-screen display.



### Sub-Image Detection

During P-in-P display, if the sub-image input signal is lost, the display will automatically switch to a full-screen image. P-in-P is automatically restored when the sub-image signal returns.



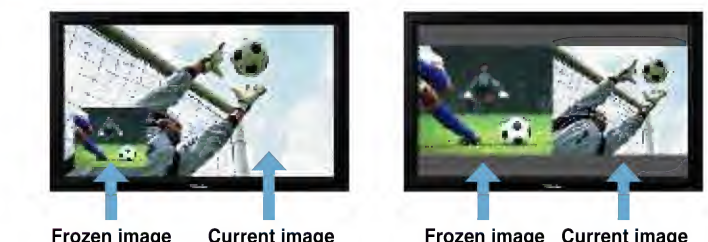
### Banner Mode

Easily display titles / captions prepared in PowerPoint® or other presentation software. There are ten positions for the titles / captions: eight horizontal settings and two portrait modes. The transparency of the on-screen titles can also be varied. \* PowerPoint is a registered trademark of Microsoft Corporation.



### Dual Image Freeze

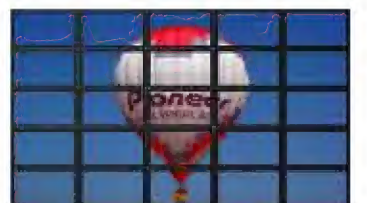
Dual Image Freeze temporarily freezes a displayed image. The still image can be the sub-image in P-in-P mode or the left-side image in Side-by-Side mode.



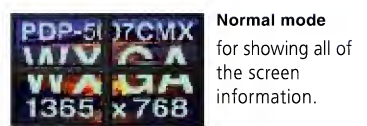
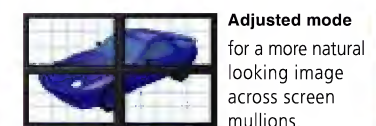
## Video Wall

### Use as Many as 25 PDPs

Pioneer makes it easy to configure multi-monitor video walls without any additional equipment. Possible configurations are 2x2, 3x3, 4x4 and 5x5.



### Two Display Modes

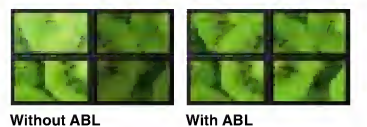


### Power On Delay

This function automatically delays the powering up of each display to reduce the load on the power source.

### ABL Link

The ABL (Auto Brightness Limiter) Link function sets the brightness of each display at a uniform level (operates only with 2x2 and 3x3 configurations).



### Auto ID Setting

Automatically sets an ID for each display connected via a combination control cable to permit simpler error-free setting (operates only with 2x2 and 3x3 configurations).



Intelligent Serviceability

RS-232C Status Feedback

When a command is transmitted from a control device to the PDP via the RS-232C interface, the PDP returns its status. This not only permits remote confirmation of current PDP status, it can also report the cause of errors, should they occur, expediting service response. The PDP-507CMX provides high-control capacity: combination (serial loop through) connections, variable baud rate setting, acknowledge function and more.

- Serial number information
- Product model name
- Hour meter
- Interior temperature information
- Power on/off information
- Input signal information
- Cause of error

AMX Duet™ Program Support

The PDP-507CMX makes use of AMX's Duet™ Partner technology to offer automatic and smooth system integration. By enabling two-way communication with the AMX controller via the RS-232C interface.

High Speed Image Switching

The PDP-507CMX has a high-performance, dual-image processing function that switches from one input image to another at the high speed of approximately 0.4 seconds, ensuring smooth displays and presentations.



Programmable Timer and Repeat Timer

Control designated functions according to a schedule by using the weekly timer and ten programmable functions including power on/off, input selection, and activation of image retention alleviation modes. In addition, the Repeat Timer can be set to repeat various image states at prescribed times. (When using Video Wall, operates only with 2x2 and 3x3 configurations)



Engineered Reliability

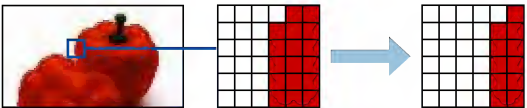
Seamless Orbiter

Conventional orbiter modes reduce image retention by moving the displayed image by one pixel at regular intervals. Because some viewers may notice the movement, it interferes with a smooth picture quality. The Seamless Orbiter

function, however, moves the entire image in smaller steps of less than a pixel. Extensive Pioneer research determined the best image orbiting patterns without creating noticeable movement.

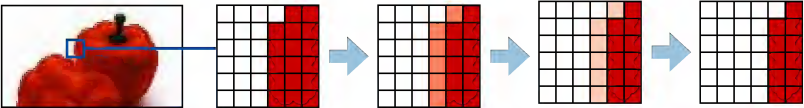
Conventional orbiter modes

The entire image moves one dot at a time. The movement is easily noticeable.



Seamless Orbiter Mode

Image moves in extremely small steps, so viewers do not notice that it is changing.



Other Image Retention Management Modes

•Auto side mask: When a 4:3 image is displayed, the side masks are automatically applied. •Side mask brightness adjustment: Adjusts side mask brightness during 4:3 image display. •White signal display: Displays white over the entire screen.

•Screen reversal display: Reverses the display image colors to help manage image retention. •Soft focus: Slightly blurs the edges of displayed images, to minimize noticeable image retention.

Energy Efficiency

Low Power Consumption and Five Energy Saver Modes

The PDP-507CMX achieves the industry's lowest power consumption of 340 W peak thanks to the high, light emission efficiency of Pioneer's latest exclusive panel technologies. Five energy saver modes contribute to further lowering power consumption: Power Save, Intermediate, Linear Brightness (which decreases

the peak intensity of high-brightness images), Auto Brightness Control (which automatically adjusts panel brightness depending upon room lighting), and Video Mute (which temporarily turns off the displayed image).

Other Features

- Large GUI Display
- Frame Rate Conversion Mode
- Display Call
- Point Zoom
- Intelligent Auto Setup
- Color Detail Adjustment
- Smart Cooling System
- Vertical and Left to Right Mirror Modes
- Priority Input Mode
- Normal and Studio Color Modes
- OSD Off
- LED Off
- IR and Key Lock
- Memory Lock

Expansive Flexibility

Unlimited Expandability to Meet Present and Future Needs - ES\* Card Slot Interface

\*Expansion Solutions

The PDP-507CMX is designed for virtually any type of application with the integration of two ES Card Slot interfaces, one for communication and one for enhanced data. It comes supplied with a removable communication card that includes RS-232C and combination I/O interfaces. The second slot may optionally be used to enable capabilities via a wide range of analog or digital signals, with additional control. This means that one PDP-507CMX can be used for multiple tasks, including various applications that other PDPs can't handle. Extensive flexibility is available right out of the box, and stays ready for future needs. Pioneer's "Expansion Solutions" are one more reason why the PDP-507CMX should be your first choice for a professional plasma display.



Communication Slot



Video Slot

Options

BNC Connector Interface Card  
PDA-5003



VIDEO INPUT/OUTPUT 3.58NTSC, 4.43NTSC, PAL, SECAM, PAL-N, PAL-M

INPUT3	IN	Connector	Signal	Level/Impedance
		Mini DIN 4-pin (S terminal)	Y/C Separate Video Signal	Y: 1 Vp-p/75 Ω C: 0.286 Vp-p/75 Ω (NTSC) 0.3 Vp-p/75 Ω (PAL)
INPUT4	IN	BNC	Composite Video Signal	1 Vp-p/75 Ω
INPUT5	IN	BNC x 5	Composite Video Signal	75 Ω
	OUT	BNC	Composite Video Signal	1 Vp-p/75 Ω
	IN	BNC x 5	Analog RGB Signal (Compatible with G on Sync)	RGB: 0.7 Vp-p/75 Ω G on Sync: 1 Vp-p/75 Ω HD/CS.VD: TTL level/75 Ω or 2.2 kΩ switchable
	OUT	BNC	Component Video Signal	Y: 1 Vp-p/75 Ω Pb/Cb, Pr/Cr: 0.525 Vp-p/75 Ω (75% saturation)

AUDIO INPUT/OUTPUT

	Connector	Level/Impedance
AUDIO INPUT(INPUT3/4)	RCA pin x 2	L/R: 500 mVrms/more than 10 kΩ
AUDIO INPUT(INPUT5)	RCA pin x 2	L/R: 500 mVrms/more than 10 kΩ

RCA Connector Interface Card  
PDA-5004



VIDEO INPUT/OUTPUT 3.58NTSC, 4.43NTSC, PAL, SECAM, PAL-N, PAL-M

INPUT3	IN	Connector	Signal	Level/Impedance
		Mini DIN 4-pin (S terminal)	Y/C Separate Video Signal	Y: 1 Vp-p/75 Ω C: 0.286 Vp-p/75 Ω (NTSC) 0.3 Vp-p/75 Ω (PAL)
INPUT4	IN	RCA	Composite Video Signal	1 Vp-p/75 Ω
INPUT5	IN	RCA x 3	Composite Video Signal	75 Ω
	OUT	RCA	Composite Video Signal	1 Vp-p/75 Ω
	IN	RCA x 3	Component Video Signal	Y: 1 Vp-p/75 Ω Pb/Cb, Pr/Cr: 0.525 Vp-p/75 Ω (75% saturation)

AUDIO INPUT/OUTPUT

	Connector	Level/Impedance
AUDIO INPUT(INPUT3)	RCA pin x 2	L/R: 500 mVrms/more than 10 kΩ
AUDIO INPUT(INPUT4)	RCA pin x 2	L/R: 500 mVrms/more than 10 kΩ
AUDIO INPUT(INPUT5)	RCA pin x 2	L/R: 500 mVrms/more than 10 kΩ

Pioneer's Certified Third Party Expansion Solution Cards

IP Link™ Interface Module  
Extron® Electronics  
IPL M PDP-ES



This compact ethernet control card enables IP-based remote control, proactive monitoring, and troubleshooting.



I/O	Connector	Signal
LAN	RJ-45	10Base-T, half/full duplex with autotdetect
		1200, 2400, 4800, 9600, 19200, 38400 baud (adjustable)
RS-232	D-sub 9-pin	8data bits, 1 stop bit, no parity

For more information: Extron Electronics  
1230 South Lewis Street, Anaheim, CA 92805 USA  
Tel: 800-633-9876 or 714-491-1500 Fax: 714-491-1517  
URL: <http://www.extron.com>

Integrated Analog CAT-5 Receiver  
Magenta Research  
MultiView™ AK1000PDP



Enables high resolution video distribution over CAT-5/UTP. Signals can be transmitted over longer distances.



Maximum resolution: 1920 × 1200 @ 60 Hz (From 0 ft. to 1000 ft.)  
Video compatibility: RGBHV, RGsB, NTSC, PAL

I/O	Connector	Signal
Link IN	RJ-45	MultiView format Video and Serial Data
Link OUT	RJ-45	The UTP signal to be daisy-chained (6 PDP)
Optional OUT	HD9	Full Modem serial option
Optional Audio	RCA x 2 (L+R)	Audio

For more information: Magenta Research, Inc.  
934 Federal Road, Brookfield, CT 06804 USA  
Tel: 203-740-0592 Fax: 203-740-0596  
URL: <http://www.magenta-research.com>

HDSDI Digital Video Interface  
Alcorn McBride  
PDP HDSDI™



Connects the PDP directly to professional quality broadcast equipment or any other device with SMPTE-292M and SMPTE-259M input capability.



I/O	Connector	Signal
Input	BNC	SMPTE-292M and SMPTE-259M
Loop Through	BNC	Buffered & Re-clockd SMPTE-292M loop through
Analog Input	Mini D-sub 15-pin	RGBHV/YPbPr component Tri-level or Bi-level sync

For more information: Alcorn McBride Inc.  
3300 S.Hiawasse Road, #105, Orlando, FL 32835 USA  
Tel: 407-296-5800 Fax: 407-296-5801  
URL: <http://www.alcorn.com>

\*Third party Expansion Solutions cards are not Pioneer products and are subject to each manufacturer's own warranty.